JOINT PERMIT APPLICATION

U.S. ARMY CORPS OF ENGINEERS (USACE)
Detroit District Office
Phone: 313-226-2218, Fax: 313-226-6763
Website: www.lre.usace.army.mil/functions/rf/dtwhome.html

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY (MDEQ)
Land and Water Management Division (LWMD)
Phone: 517-373-9244, Fax: 517-241-9003
Website: www.deq.state.mi.us/lwm

This "Joint Permit Application" package was developed to facilitate the state and federal permit application process administered by the MDEQ and the USACE, respectively, for regulated activities where the land meets the water, including wetlands, often referred to as the land/water interface. The status of your application being processed by the state can be viewed on the LWMD website under "CIWPIS".

Permit applications should be sent to the Permit Consolidation Unit (PCU), LWMD, MDEQ for initial review. Once the PCU has received the information necessary for review of the project, **including drawings that have adequate detail for review** and the **full application fee**, the file will be sent to the appropriate MDEQ District/Field Office for site inspection and final processing. You will receive a card or a public notice that will tell you your file number and the telephone number of the office where your application is being processed. The PCU review time for complete applications ranges from 15 to 45 days. District/Field Office processing times usually range from 60 to 90 days, processing times will be longer if a public hearing is held. A LWMD staff person from your local District/Field Office may visit your project site and may contact you for additional information prior to issuance of a permit, if approved. If a federal permit will also be required, a copy of the permit application will be sent to the Detroit District Office, USACE, for processing at the federal level. Additional copies of this application form can be downloaded from the LWMD website under "Permit Application" or can be photocopied from the original. If you have any questions about the permitting process or if you need to modify your application, you can contact the PCU by phone or fax at the numbers above, by mail at the address below, or by email at DEQ-LWM-PCU@state.mi.us.

The LWMD, MDEQ, regulates activities under the following Parts of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. The regulated activities are summarized in Appendix D. The complete statutes and rules can be downloaded from our website under "LWMD Statutes and Rules".

- Part 301, *Inland Lake*s and *Stream*s
- Part 303, Wetlands Protection
- Part 325, Great Lakes Submerged Lands
- *Floodplain* Regulatory Authority found in Part 31, Water Resources Protection
- Part 353, Sand Dunes Protection and Management
- Part 323, Shorelands Protection and Management
- Part 315, *Dam* Safety
- Part 91, Soil Erosion and Sedimentation Control

The USACE has the authority to regulate activities within the waters of the United States under the following statutes:

- Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403)
- Section 404 of the Clean Water Act (33 U.S.C. 1344)

Complete all items in Sections 1 through 9, on pages 1 and 2 of the application (italicized words are defined in Appendix E):

- ❑ Please **print** all information and use either **black or blue ink**.
- ❑ Make sure you:
  - ❑ Provide the Township, Range, Section, and Property Tax Identification Numbers required in Section 1.
  - ❑ Provide the requested information for all *adjacent and impacted property owners* in Section 8.
  - ❑ Print your name and sign and date your application in Section 9. If applicant is a corporation, include title of authorized representative.

Prepare maps and drawings with black or blue ink and provide adequate detail for review:

- ❑ Read and follow the **"General Instructions for all Drawings"** on page 1 of Appendix B.
- ❑ Review the sample site location maps in Sample Drawing 1 and prepare a site location map for your project location.
- ❑ Prepare an Overall Site Plan following the instructions on page 1 of Appendix B.
- ❑ Review the Plan View and Cross-Section (elevation) Sample Drawings 2 through 23 in Appendix B for the type of information required for your project.
- ❑ Prepare site-specific Plan View and Cross-Section Drawings for your proposed project showing existing and proposed details.

Complete project specific information:

- ❑ Complete items in Sections 10 through 21 on pages 3 through 7 that apply to your project following the instructions at the beginning of each section. The instructions for each sample drawing in Appendix B indicates the application sections you will most likely need to complete.
- ❑ If your project is located on a Great Lake, elevations must be provided in IGLD 85. If the elevation is surveyed, please describe the reference point or benchmark used, and its elevation. If the elevation is from a still water elevation, please note this and provide observed water elevation and date of observation. For observed Great Lake water elevations in IGLD 85 visit the USACE website under "water levels". On inland waters, generally use NGVD 29 or a local datum, NGVD 29 or IGLD 85 must be used for *Section 10 Waters*. The state building code requires an Elevation Certificate for any building construction or addition in the floodplain. This form can be found at www.fema.gov/library/elvcert.pdf.

To prevent processing delays, make sure only the following items are mailed to the PCU at the address below, label each attachment with applicant's name and date:

- ❑ Pages 1 and 2 of the application.
- ❑ Pages 3 through 7 of the application that you have provided information on.
- ❑ The Site Location Map, Overall Site Plan, Plan View and Cross-Section Drawings, and additional information sheets on 8.5 x 11 standard weight paper suitable for photocopying for public notice purposes. If larger drawings or blueprints are required to show adequate detail for review, submit 5 full size copies.
- ❑ An authorization letter from the property owner if someone other than the property owner is signing the application.
- ❑ A check made payable to the **State of Michigan** (refer to Appendix C for the correct permit application filing fee).

  MDEQ
  LWMD PCU
  P.O. BOX 30204
  LANSING, MI 48909-7704

To reduce the processing time:

- ❑ Please flag the area for site inspection including the property corners, proposed road or driveway centerlines, and areas of proposed impacts.
- ❑ Descriptive photographs of the proposed work site are optional, but may assist staff in processing your application more quickly - e.g., showing vegetation if wetlands are involved or the *shoreline* for shore protection projects. All photographs must be labeled with your name and date of photograph, indicate what they show, and be referenced to the site plan. Proposed activities or structure(s) may be indicated directly on the photographs using indelible markers or ink pens.

Table of Contents

US Army Corps of Engineers (USACE) **Michigan Department of Environmental Quality (MDEQ)**

AGENCY USE				AGENCY USE
	Previous USACE Permit or File Number	Date Received	Land and Water Management Division, MDEQ File Number	
	USACE File Number		*Marina* Operating Permit Number	
			Fee received **$**	

- **Print in black or blue ink and complete all items in Sections 1 through 9 and those items in Sections 10 through 21 that apply to your proposed project.**

1 PROJECT LOCATION INFORMATION

- Refer to your property's legal description for the Township, Range, and Section information, and your property tax bill for your Property Tax Identification Number(s).

Address		Township Name(s)	Township(s)	Range(s)	Section(s)
City/Village	County(ies)	Property Tax Identification Number(s)			
Name of Waterbody	Project Name or Job Number	Subdivision/Plat	Lot Number	Private Claim	

Project types **(check all that apply)**: ☐ private ☐ public/government ☐ industrial ☐ commercial ☐ multi-family ☐ building addition ☐ new building or *structure* ☐ building renovation or restoration ☐ river restoration ☐ single-family ☐ other (explain)

The proposed project is on, within, or involves **(check all that apply)**

☐ a legally established County Drain (date established_____)

☐ a stream ☐ a pond (less than 5 acres) ☐ a Great Lake or *Section 10 Waters* ☐ a *natural river*

☐ a river ☐ a channel/canal ☐ a designated *high risk erosion area* ☐ a *dam* ☐ a *structure* removal

☐ a ditch or drain ☐ an *inland lake* (more than 5 acres) ☐ a designated *critical dune area* ☐ a wetland ☐ a utility crossing

☐ a *floodway* area ☐ a *100-year floodplain* ☐ a designated *environmental area* ☐ 500 feet of an existing waterbody

2 DESCRIBE PROPOSED PROJECT AND ASSOCIATED ACTIVITIES, AND THE CONSTRUCTION SEQUENCE AND METHODS

- Attach separate sheets, as needed, including necessary drawings, sketches, or plans.

3 APPLICANT, AGENT/CONTRACTOR, AND PROPERTY OWNER INFORMATION

- The applicant can be either the property owner or the person or company that proposes to undertake the activity.
- If the applicant is a corporation, both the corporation and it's owner must provide a written document authorizing the agent/contractor to act on their behalf.

Applicant (individual or corporate name)	Agent/Contractor (firm name and contact person)
Mailing Address	Address
City State Zip Code	City State Zip Code
Daytime Telephone Number with Area Code	Daytime Telephone Number with Area Code
Fax E-mail	Fax E-mail

Is the applicant the sole owner of all property on which this project is to be constructed and all property involved or impacted by this project? ☐ No ☐ Yes

(**If No**, provide a letter signed by the property owner authorizing the agent/contractor to act on his or her behalf or a copy of easements or right-of-ways. If multiple owners, please **attach** all property owners' names, mailing addresses, and telephone numbers.)

Property Owner's Name (If different from applicant)	Mailing Address
Daytime Telephone Number with Area Code	City State Zip Code

4 PROPOSED PROJECT PURPOSE, INTENDED USE, AND ALTERNATIVES CONSIDERED (Attach additional sheets if necessary)

- The purpose must include any new development or expansion of an existing land use.
- Include a description of alternatives considered to avoid or minimize resource impacts. Include factors such as, but not limited to, alternative construction technologies; alternative project layout and design; alternative locations; local land use regulations and infrastructure; and pertinent environmental and resource issues.
- For utility crossings, include both alternative routes and alternative construction methods.

5 LOCATING YOUR PROJECT SITE

- Provide the requested information listed below that will help staff in locating your project site.
- Attach a copy of a map, such as a plat, county, or USGS topographic map, clearly showing the site location and include an arrow indicating the north direction.

Is there an access road to the project? ☐ No ☐ Yes (**If Yes,** type of road, **check all that apply**) ☐ private ☐ public ☐ improved ☐ unimproved

Name of roads at closest main intersection_____ and _____

Directions from main intersection_____

Style of house or other building on site ☐ ranch ☐ 2-story ☐ cape cod ☐ bi-level ☐ cottage/cabin ☐ pole barn ☐ none ☐ other (describe)_____

Color_____Color of adjacent property house and/or buildings_____

House number _____Address is visible on ☐ house ☐ garage ☐ mailbox ☐ sign ☐ other _____

Street name _____ Fire lane number_____ Lot number _____

How can your site be identified if there is no visible address? _____

Provide directions to the project site, with distances from the best and nearest visible landmark and waterbody _____

Does project cross boundaries of two or more political jurisdictions? (City/Township, Township/Township, County/County, etc.)
☐ No ☐ Yes (If Yes, list jurisdiction names.)

6 List all other federal, interstate, state, or local agencies authorizations required for the proposed activity, including all approvals or denials received.

Agency	Type approval	Identification number	Date applied	Date approved / denied	If denied, reason for denial

7 If a permit is issued, date activity will commence (M/D/Y) | Proposed completion date (M/D/Y)

Has any construction activity commenced or been completed in a regulated area? ☐ No ☐ Yes
If Yes, identify the portion(s) underway or completed on drawings or attach project specifications and give completion date(s) (M/D/Y)

Were the regulated activities conducted under a MDEQ permit? ☐ No ☐ Yes
If Yes, list the MDEQ permit number

Are there any present unresolved violations of environmental law or litigation involving the property? ☐ No ☐ Yes (**If Yes,** please explain)

8 PUBLIC NOTIFICATION (Attach additional sheets if necessary)

- Complete information for all *adjacent and impacted property owners* and the lake association or established lake board including the contact person's name.
- If you own the adjacent lot, provide the requested information for the first adjacent parcel beyond your property line.

Property Owner's Name	Mailing Address	City	State	Zip Code

Name of ☐ Established Lake Board ☐ or Lake Association and the Contact Person's Name	Mailing Address	City	State	Zip Code

9 APPLICANT'S CERTIFICATION **READ CAREFULLY BEFORE SIGNING**

I am applying for a permit(s) to authorize the activities described herein. I certify that I am familiar with the information contained in this application, that it is true and accurate, and, to the best of my knowledge, is in compliance with the State *Coastal Zone Management Program* and the *National Flood Insurance Program*. I understand that there are penalties for submitting false information and that any permit issued pursuant to this application may be revoked if information on this application is untrue. I certify that I have the authority to undertake the activities proposed in this application. By signing this application, I agree to allow representatives of the MDEQ and the USACE to enter upon said property in order to inspect the proposed activity site and the completed project. I understand that I must obtain all other necessary local, county, state, or federal permits and that the granting of other permits by local, county, state, or federal agencies does **not** release me from the requirements of obtaining the permit requested herein before commencing the activity. I understand that the payment of the application fee does **not** guarantee the issuance of a permit.

- All applicants must complete all the items in Sections 1 through 9 on pages 1 and 2 of this application.
- Complete those items in Sections 10 through 21 that apply to your project. It is necessary to submit only those pages where you have provided information.
- Please list here the application page numbers being submitted and a brief description of other attachments included with your application.

☐ Property Owner
☐ Agent/Contractor
☐ Corporation - Title_____ Printed Name Signature Date

10 PROJECTS IMPACTING WETLANDS OR FLOODPLAINS OR LOCATED ON AN INLAND LAKE OR STREAM OR A GREAT LAKE

- Check boxes A through N that may be applicable to your project and provide the requested information.
- If your project may affect wetlands, complete Section 12. If your project may impact regulated *floodplain*s, complete Section 13.
- Provide an overall site plan showing existing lakes, streams, wetlands, and other water features; existing *structures*; and the location of all proposed *structures*, land change activities and *soil erosion and sedimentation control measures*. Please review sample drawings for guidance in completing site-specific drawings for your project.
- On a Great Lake use *IGLD 85* ☐ surveyed ☐ converted from observed still water elevation. On inland waters, ☐ *NGVD 29* ☐ local datum ☐ other _____
  Observed water elevation (ft)_____, date of observation (M/D/Y)_____

☐ **A. PROJECTS REQUIRING FILL** (See All Sample Drawings)

- To calculate volume in cubic yards (cu yd), multiply the average length in feet (ft) times the average width (ft) times the average depth (ft) and divide by 27.
- Attach both plan and *cross-section* views to scale showing maximum and average fill dimensions.

(Check all that apply) ☐ *floodplain* fill ☐ wetland fill ☐ *riprap* ☐ *seawall*, *bulkhead*, or *revetment* ☐ bridge or culvert
☐ boat launch ☐ off-shore swim area ☐ beach sanding ☐ boatwell ☐ crib *dock* ☐ other _____

Fill dimensions (ft) length width maximum depth	Fill volume (cu yd)	Maximum water depth in fill area (ft)

Type of clean fill ☐ pea stone ☐ sand ☐ gravel ☐ wood chips ☐ other _____

Will *filter fabric* be used under proposed fill? ☐ No ☐ Yes (**If Yes,** type)

Source of clean fill ☐ on-site, **If on-site,** show location on site plan ☐ commercial ☐ other, **If other,** attach description of location

Fill will extend _____ feet into the water from the *shoreline* **and** *upland* _____ feet out of the water.

☐ **B. PROJECTS REQUIRING DREDGING OR EXCAVATION** (See All Sample Drawings)

- To calculate volume in cubic yards (cu yd), multiply the average length in feet (ft) times the average width (ft) times the average depth (ft) and divide by 27.
- Attach both plan and *cross-section* views to scale showing maximum and average dredge or excavation dimensions.
- The applicant will be notified if sediment sampling will be required.

(Check all that apply) ☐ *floodplain* excavation ☐ wetland dredge or draining ☐ *seawall, bulkhead, or revetment*
☐ navigation ☐ *boat well* ☐ boat launch ☐ other _____

Dredge volume (cu yd)	Method and equipment for dredging

Has proposed dredge material been tested for contaminants? ☐ No ☐ Yes (**If Yes,** attach testing results)

Has this same area been previously dredged? ☐ No ☐ Yes (**If Yes**, provide date and permit number, if available)
If Yes, are you proposing to enlarge the previously dredged area ☐ No ☐ Yes

Is long-term maintenance dredging planned? ☐ No ☐ Yes (**If Yes,** when and how much?)

☐ **C. PROJECTS REQUIRING RIPRAP** (See Sample Drawings 2, 3, 8, 12, 14, 17, 22, and 23. Others may apply)

	Dimensions (ft) length width depth	Volume (cu yd)
Riprap **waterward** of the ☐ *shoreline* **OR** ☐ *ordinary high water mark*		
Riprap **landward** of the ☐ *shoreline* **OR** ☐ *ordinary high water mark*		

Type of *riprap* ☐ field stone ☐ angular rock ☐ other_____

Will *filter fabric* be used under proposed *riprap*? ☐ No ☐ Yes (**If Yes,** type)

☐ **D. SHORE PROTECTION PROJECTS** (See Sample Drawings 2, 3, and 17)

(check all that apply) ☐ *riprap* ☐ *seawall/bulkhead* ☐ *revetment*

☐ **E. DOCK - PIER - MOORING PILINGS** (See Sample Drawing 10)

Type ☐ open pile ☐ filled ☐ crib	*Seasonal structure*? ☐ No ☐ Yes
Proposed *structure* dimensions (ft) length width	Dimensions of nearest adjacent *structure*s (ft) length width

☐ **F. BOAT WELL** (No Sample Drawing available)

Type of bank stabilization ☐ wood ☐ steel ☐ concrete ☐ vinyl ☐ *riprap* ☐ other_____

Boat well dimensions (ft) length width depth	Number of boats
Volume of backfill behind sidewall stabilization (cu yd)	Distances of *boat well* from adjacent property lines (ft)

☐ **G. BOAT LAUNCH** (No Sample Drawing available)

(check all that apply) ☐ new ☐ existing ☐ public ☐ private ☐ commercial	Type of material ☐ concrete ☐ wood ☐ stone ☐ other_____
Overall boat launch dimensions (ft) length width depth	Boat launch dimensions (ft) below *ordinary high water mark* length width depth
Distances of launch from both property lines (ft)	Number of skid *piers* / Skid *pier* dimensions (ft) width length

☐ **H. BOAT HOIST** (No Sample Drawing available)

(Check all that apply) ☐ *seasonal* ☐ permanent ☐ cradle ☐ side lifter ☐ other _____ located on ☐ *seawall* ☐ *dock* ☐ bottomlands

☐ **I. BOARDWALKS AND DECKS IN WETLANDS OR FLOODPLAINS** (See Sample Drawings 5 and 6)

(Check all that apply) ☐ boardwalk ☐ deck ☐ wetlands ☐ *floodplain* Boardwalk or deck is on ☐ fill ☐ *piling*

10 Continued - PROJECTS IMPACTING WETLANDS OR FLOODPLAINS OR LOCATED ON AN INLAND LAKE OR STREAM OR A GREAT LAKE

☐ **J. INTAKE PIPES** (See Sample Drawing 16) ☐ **OUTLET PIPES** (See Sample Drawing 22)

Type ☐ headwall ☐ end section ☐ pipe ☐ other_____	If outlet pipe, discharge is to ☐ wetland ☐ *inland lake* ☐ stream, drain, or river ☐ Great Lake ☐ other_____
Dimensions of headwall **OR** end section (ft) length width depth	Number of pipes / Pipe diameters and invert elevations

☐ **K. MOORING AND NAVIGATION BUOYS** (No Sample Drawing available)

- Provide an overall site plan showing the distances between each buoy, distances from the shore to each buoy, and depth of water at each buoy in feet.
- Provide cross-section drawing(s) showing anchoring system(s) and dimensions.

Number of buoys	Type of anchor system	Purpose of buoy ☐ mooring ☐ navigation
Dimensions of buoys (ft) width height		Do you own the property along the *shoreline*? ☐ No ☐ Yes (**If No,** you must provide an authorization letter from the property owner(s))

☐ **L. GROINS** (No Sample Drawing available)

- Provide an overall site plan showing the distances (ft) of the outermost *groins* from the property lines, distances between *groins*, length and width of each *groin*, and the distance from the existing toe of the bluff to the lakeward end of the *groins*.
- If existing *groins* are located on adjacent properties, provide distances (ft) from closest neighboring *groin* to your property lines on the site plan. Provide *cross-section* views showing the length and height of each *groin* and the height of *groin* ends above the observed water level (date and time). If step down type, show the height of each section above the observed water level.

Number of *groins*	Type of *groin* ☐ steel ☐ wood ☐ other _____	Will *groin* be placed on a foundation? ☐ No ☐ Yes (**If Yes**, dimensions of foundation (ft)) length width height

☐ **M. FENCES IN WETLANDS, STREAMS, OR FLOODPLAINS** (No Sample Drawing available)

- Provide an overall site plan showing the proposed fencing through wetlands, streams, or *floodplain*s.
- Provide drawing of fence profile showing the design, dimension, post spacing, board spacing, and distance from ground to bottom of fence (if in a *floodplain*).

(check all that apply) ☐ wetlands ☐ streams ☐ *floodplains*	Total length (ft) of fence through wetlands _____ streams_____ *floodplains*_____	Fence height (ft)_____	Fence type and material

☐ **N. OTHER** - e.g., *structure* removal, *marine rail*way, *low sand trap wall, breakwater*, and structural foundations in wetlands or *floodplain*s

11 CONSTRUCTION OF A NEW LAKE OR POND (See Sample Drawings 4 and 15)

Which best describes your proposed waterbody use **(check all that apply)**
☐ wildlife ☐ *stormwater retention basin* ☐ *stormwater detention basin* ☐ recreation ☐ wastewater basin ☐ other _____

Water source for lake/pond
☐ groundwater ☐ natural springs ☐ *Inland Lake or Stream* ☐ stormwater runoff ☐ pump ☐ sewage ☐ other_____

Will project involve construction of a *dam*, dike, outlet control *structure*, or *spillway*? ☐ No ☐ Yes (**If Yes,** complete Section 17)

12 ACTIVITIES THAT MAY IMPACT WETLANDS

- For information on the MDEQ's *Wetland Assessment* Program, please visit the LWMD website or call 517-241-8485.

(check all that apply) ☐ fill (Section 10A) ☐ dredge or excavation (Section 10B) ☐ boardwalk or deck (Section 10I) ☐ fences (Section 10M) ☐ bridges and culverts (Section 14) ☐ draining surface water ☐ other_____

Has a professional wetland delineation been conducted for this parcel? ☐ No ☐ Yes (**If Yes,** please provide a copy; if federal method was used, supply data sheets)	Applicant purchased property ☐ before **OR** ☐ after October 1, 1980.

Has the MDEQ conducted a *wetland assessment* for this parcel? ☐ No ☐ Yes (**If Yes,** please provide a copy)

Describe the wetland impacts, proposed use or development, and efforts to avoid/minimize impacts.

Is any grading or mechanized land clearing proposed? ☐ No ☐ Yes (**If Yes,** please show locations on site plan)	Has any of the proposed grading or mechanized land clearing been completed? ☐ No ☐ Yes (**If Yes,** please label and show locations on site plan)

- Complete the wetland dredge and wetland fill dimension information for each impacted wetland area. Attach additional sheets if necessary and label the impacted wetland areas on a site plan drawn to scale. Please attach at least one typical *cross-section* for each wetland dredge and/or fill area.
- Also complete Section 10A for fill and Section 10B for dredge or excavation activities.
- If dredge material will be disposed of on site, please show the location on site plan in an *upland* area and include *soil erosion and sedimentation control measures*.

Wetland dredge dimensions	maximum length (ft)	maximum width (ft)	dredge area ☐ acres ☐ sq ft	average depth (ft)	dredge volume (cu yd)
Wetland fill dimensions	maximum length (ft)	maximum width (ft)	fill area ☐ acres ☐ sq ft	average depth (ft)	fill volume (cu yd)

Total wetland dredge area ☐ acres ☐ sq ft	Total wetland dredge volume (cu yd)
Total wetland fill area ☐ acres ☐ sq ft	Total wetland fill volume (cu yd)

The proposed project will be serviced by ☐ public sewer ☐ private septic system (**If septic system,** show existing and new or expanded system on plans)	**If septic system,** has application been made to the County Health Department for a permit? ☐ No ☐ Yes	**If Yes,** has permit been issued? ☐ No ☐ Yes (**If Yes**, provide copy)

13 FLOODPLAIN ACTIVITIES (See Sample Drawing 5. Others may apply)

- Please attach additional sheets with the requested information when multiple *floodplain* activities are included in this application.

(check all that apply) ☐ fill ☐ dredge ☐ wetland impacts ☐ other_____

Site is _____feet above ☐ *ordinary high water mark* (OHWM) **OR** ☐ observed water level _____. Date of observation _____(M/D/Y)

14 BRIDGES AND CULVERTS (Including Foot and Cart Bridges)

- Provide detailed site-specific drawings of existing **and** proposed *Plan View* (Sample Drawing 14A), Elevation View (Sample Drawing 14B), Stream and *Floodplain Cross-Section* (Sample Drawing 14C), Stream Profile (Sample Drawing 14D) and *Floodplain* Fill (Sample Drawing 5) at a scale adequate for detailed review.
- Provide the requested information in Subsections 14A and 14B that applies to your project. If there is not an existing *structure*, leave the "Existing" column blank.
- A Licensed Professional Engineer must complete sections 14C, 14D, and 14E if one of these certifications is required for your proposed project.
- Please attach additional sheets with the requested information when multiple crossings are included in this application.

A. Structural Data	Existing	Proposed		Existing	Proposed
Culvert type (box, circular, arch) and material (corrugated metal, timber, concrete, etc.)			Bridge span (length perpendicular to stream) **OR** culvert ☐ width ☐ diameter (ft)		
Bridge type (concrete box beam, timber, concrete I-beam, etc.)			Bridge width (parallel to stream) **OR** culvert length (ft)		
Entrance design (projecting, mitered, wingwalls, etc.)			Bridge *rise* (from bottom of beam to streambed) **OR** Culvert *rise* (from top of culvert to streambed) (ft)		
Total *structure waterway opening* above streambed (sq ft)			Stream width at OHWM (ft)	*Cross-sectiona*l area of the entire channel (sq ft)	

B. Elevations		Existing	Proposed			Existing	Proposed
☐ elevation of culvert crown ☐ bottom of bridge beam (ft)	Upstream			Higher elevation of ☐ pipe invert **OR** ☐ streambed within pipe (ft)	Upstream		
	Downstream				Downstream		
Elevation of road grade at *structure* (ft)				Distance from low point of road to mid-point of bridge crossing (ft)			
Elevation of low point in road (ft)							

Reference datum used (show on plans with description) ☐ *NGVD 29* ☐ *IGLD 85* (Great Lakes coastal areas) ☐ local_____

High water elevation – describe reference point and highest known water level above or below reference point and date of observation.

C. I hereby certify that the above described replacement crossing has been designed with an equal or greater hydraulic capacity than the existing crossing and that the deletion of auxiliary *waterway opening*s or road overflow areas are not planned. I further certify that I have inspected upstream and adjoining properties and find no evidence that the existing crossing and its approaches caused excessive erosion and/or property damage.

Applicant's or Licensed Professional Engineer's Printed Name	Signature	Registration Number	Expiration Date (M/D/Y)

D. I hereby certify that the above described new (not a replacement) stream crossing has been designed to pass the 100-year flood as determined by the MDEQ, without causing a *"harmful interference"* as defined by administrative rule R 323.1311(g).

Licensed Professional Engineer's Printed Name	Signature	Registration Number	Expiration Date (M/D/Y)

E. I hereby certify that the increase in stage caused by the above described new or replacement *structure* does not result in a *"harmful interference"* as defined by administrative rule R 323.1311(g).

Licensed Professional Engineer's Printed Name	Signature	Registration Number	Expiration Date (M/D/Y)

15 STREAM, RIVER, OR DRAIN CONSTRUCTION ACTIVITIES (No sample drawing available)

- Complete Section 10A for fill, Section 10B for dredge or excavation, and Section10C for *riprap* activities.
- If side casting or other proposed activities will impact wetlands or *floodplain*s, complete Sections 12 and 13, respectively.
- Provide an overall site plan showing existing lakes, streams, wetlands, and other water features; existing *structures*; and the location of all proposed *structures* and land change activities. Provide *cross-section* (elevation) drawings necessary to clearly show existing and proposed conditions. Be sure to indicate drawing scales.
- **For activities on legally established county drains, provide original design and proposed dimensions and elevations.**

(check all that apply) ☐ maintenance ☐ improvement ☐ relocation ☐ enclosure ☐ new drain ☐ wetlands ☐ other _____

Dimensions (ft) of existing stream/drain channel to be worked on. length width depth

Dimensions (ft) of new, relocated, or enclosed stream/drain channel. length width depth

Existing channel average water depth in a normal year (ft)	Proposed side *slope*s (vertical / horizontal)

Will old/enclosed stream channel be backfilled to top of bank grade? ☐ No ☐ Yes

How will *slope*s and bottom be stabilized?

_____

If an enclosed *structure* is proposed, check type?	Will spoils be disposed of on site? ☐ No ☐ Yes
☐ concrete ☐ corrugated metal ☐ plastic ☐ other _____	**(If Yes,** show location of spoils on site plan in an *upland* area.)

Reference datum used (show on plans with description) ☐ *NGVD 29* ☐ *IGLD 85* (Great Lakes coastal areas) ☐ local_____

16 DRAWDOWN OF AN IMPOUNDMENT

- If wetlands will be impacted, also complete Section 12.

Type of drawdown ☐ over winter ☐ temporary ☐ one-time event ☐ annual event ☐ permanent (*dam* removal) ☐ other_____

Reason for drawdown

Has there been a previous drawdown? ☐ No ☐ Yes (**If Yes**, provide date (M/Y)) | Previous permit number, if known

Does waterbody have established legal lake level? ☐ No ☐ Yes ☐ Not Sure | *Dam* ID Number, if known

Extent of vertical drawdown (ft)	*Impoundment* design head (ft)	Number of adjacent or impacted property owners
Date drawdown would start (M/D/Y)	Date drawdown would stop (M/D/Y)	Rate of drawdown (ft/day)
Date refilling would start (M/D/Y)	Date refill would end (M/D/Y)	Rate of refill (ft/day)
Type of outlet discharge *structure* to be used ☐ surface ☐ bottom ☐ mid-depth	*Impoundment* area at normal water level (acres)	Sediment depth behind *impoundment* discharge *structure* (ft)

17 DAM, EMBANKMENT, DIKE, SPILLWAY, OR CONTROL STRUCTURE ACTIVITIES (See Sample Drawing 15)

- If wetlands will be impacted, also complete Section 12.
- Please attach site-specific conceptual plans for construction of a new *dam*, reconstruction of a *failed dam*, or enlargement of an existing *dam* for resource impact review. Detailed engineering plans are required once the activity has been determined to be permitable from an environmental standpoint.
- Please attach detailed engineering plans for a *dam* repair, *dam alteration*, *dam abandonment*, or *dam* removal.

Which one best describes your project? ☐ new *dam* construction ☐ reconstruction of a *failed dam* ☐ enlargement of an existing *dam* ☐ *dam repair* ☐ *dam alteration* ☐ *dam abandonment* ☐ *dam* removal ☐ other_____

Dam ID Number If known	Type of outlet discharge *structure* ☐ surface ☐ bottom ☐ mid depth	Will proposed activities require a drawdown of the waterbody to complete the work? ☐ No ☐ Yes (**If Yes,** also complete Section 16)	
Riprap Volume (cu yd)	Dredging/excavation Volume (cu yd)	Fill volume (cu yd)	Does *structure* allow complete drainage of waterbody ☐ No ☐ Yes

Benchmark elevation (ft) Datum used ☐ Local ☐ *NGVD 29* ☐ other_____ Describe benchmark and show on plans

Have you engaged the services of a Licensed Professional Engineer? ☐ No ☐ Yes (**If Yes,** name, registration number, and mailing address)

Will a water diversion during construction be required? ☐ No ☐ Yes (**If Yes,** describe how the stream flow will be controlled through the *dam* construction area during the proposed project activities)

- **The following additional information is required for a new dam, reconstruction of a failed dam, or enlargement of an existing dam.**

Describe the type of *dam* and how you will design the *dam* and embankment to control seepage through and underneath the *dam*.

Embankment top elevation (ft)	Streambed elevation at downstream embankment toe (ft)	Structural height (difference between embankment top elevation and streambed elevation at downstream embankment toe) (ft)	
Embankment Length (ft)	Embankment top width (ft)	Embankment bottom width (ft)	Embankment *slopes* (vertical / horizontal) Upstream _____ Downstream _____
Proposed normal pool elevation (ft)	*Impoundment* flood elevation (ft)	Maximum vertical drawdown capability (ft) (attach operational procedure of the proposed *structure* if available)	

Have soil borings been taken at *dam* location? ☐ No ☐ Yes (**If Yes,** submit results with permit application)	Will a cold water *underspill* be provided? ☐ No ☐ Yes (**If Yes,** invert elevation_____ft)	Do you have flowage rights to all proposed flooded property at the design flood elevation? ☐ No ☐ Yes

18 UTILITY CROSSINGS (See Sample Drawings 12 and 13)

- If side casting is required, complete Subsections 10A and 10B. If spoils will be placed in wetlands or wetlands may be impacted, complete Section 12.
- Please attach additional sheets with the requested information as needed for multiple crossings.

What method will be used to construct the crossings? ☐ *flume* ☐ *plow* ☐ open trench ☐ jack and bore ☐ directional drilling

Crossing of ☐ *Inland Lake or Stream* ☐ *floodplain* ☐ international waters ☐ wetlands (also complete Section 12)

Type	Number of wetland crossings	Number of inland lake or stream crossings	Pipe diameter (inches)	Pipe length per crossing (feet)	Distance below streambed or wetland (inches)
☐ sanitary sewer					
☐ storm sewer					
☐ watermain					
☐ cable					
☐ oil/gas pipeline					

19 MARINA CONSTRUCTION AND OPERATING PERMIT INFORMATION (See Sample Drawing 21)

- *Marinas* located on one of the Great Lakes, including Lake St. Clair, may be required to secure leases or conveyances from the state of Michigan to place *structure*s on the bottomlands.
- If you have a current pump-out agreement with another *marina* facility, please enclose a copy.
- Please attach a copy of the property legal description or a property boundary survey report to your application.

Marina owner	Marina name
Mailing address	Location address
City State Zip Code	City State Zip Code
Marina owner's daytime telephone number with area code	Marina's daytime telephone number with area code
Check the reasons for submitting this application ☐ Owner's name change ☐ Construction of a new *marina* ☐ Issuance of a new *Marina* Operating Permit ☐ Expansion/modification of an existing *marina* ☐ Reissuance of a *Marina* Operating Permit	Current Marina Operating Permit Number Expiration Date (M/D/Y)

	Existing	Proposed		Existing	Proposed
Number of boat slips/wells			Are sanitary pump-out facilities available?	☐ No ☐ Yes	☐ No ☐ Yes
Number of launch ramps/lanes			Number of hoist/take-out wells		
Number of mooring buoys			Number of gas pumps		
Lineal feet of broadside dockage			Name of *marina* insurance company		
Number of parking spaces					

20 HIGH RISK EROSION AND CRITICAL DUNE AREAS (See Sample Drawings 19 and 20, also Sample Drawing 9 if wetlands are impacted)

- Construction in *critical dune areas* on *slopes* greater than a 1-foot vertical *rise* in a 3-foot horizontal plane (33 percent) are prohibited without a special exception.
- Construction in *critical dune areas* on *slopes* that measure from a 1-foot vertical *rise* in a 4-foot horizontal plane (25 percent) to less than a 1-foot vertical *rise* in a 3-foot horizontal plane (33 percent) requires plans prepared by a registered architect or licensed professional engineer.
- All property boundaries and proposed *structure* corners, septic system, water well, and driveway locations must be staked before the MDEQ site inspection.
- Additional information, including the building construction plans, may be required to complete the application review.
- The use of federal funds includes any federally insured mortgages such as the Veterans Administration (VA) or Federal Housing Administration (FHA).

Parcel dimensions (ft) width depth	Property is a ☐ platted lot ☐ unplatted parcel	If platted lot, year platted	Length of shore frontage (ft)
Type of construction activities ☐ home ☐ garage ☐ driveway ☐ septic ☐ addition ☐ renovation ☐ other__			
The proposed project will be serviced by ☐ public sewer ☐ private septic system (**If septic system,** show existing and new or expanded system on plans)	**If septic system,** has application been made to the County Health Department for a permit? ☐ No ☐ Yes	**If Yes,** has permit been issued? ☐ No ☐ Yes (**If Yes**, provide copy)	Number of individual living-units in proposed building

Existing construction is on ☐ *pilings* ☐ basement ☐ concrete slab ☐ crawl space	Proposed new construction will be on ☐ *pilings* ☐ basement ☐ concrete slab ☐ crawl space
Existing construction material above foundation wall ☐ stud frame ☐ log ☐ block ☐ other_____	Proposed new construction material above foundation wall ☐ stud frame ☐ log ☐ block ☐ other_____
Existing siding material ☐ wood ☐ vinyl ☐ block ☐ other_____	Proposed new siding material ☐ wood ☐ vinyl ☐ block ☐ other_____
Area of the existing foundation, excluding attached garage (sq ft)	Area of the proposed foundation, excluding attached garage (sq ft)
Area of the existing garage foundation (sq ft)	Area of the proposed garage foundation (sq ft)
If renovating or restoring existing *structure*, renovation or restoration cost $ _____ Current *structure* replacement value $_____	Tax assessed value of existing *structure* (excluding land value) $ _____ Assessment year _____

Are federal funds being used to finance any portion of the proposed project?
☐ No ☐ Yes (**If Yes,** please identify source)

Date by which project location will be staked (M/D/Y)

21 ACTIVITIES IN DESIGNATED ENVIRONMENTAL AREAS (No Sample Drawings Available)

- Many designated *environmental areas* are completely or partially wetlands. Be sure to complete Section 12 if your proposed activities will also occur in wetlands.
- If you are proposing any alteration in a designated *environmental area*, please attach a detailed site plan.

(Check all that apply)
☐ placement of *structure*s ☐ grading or other soil alteration ☐ alteration of natural drainage
☐ alteration of vegetation ☐ boardwalk or deck ☐ driveway or road
☐ dredge ☐ fill ☐ culvert ☐ other_____

Has the MDEQ staff or anyone else conducted a *wetland assessment* for this parcel? ☐ No ☐ Yes (**If Yes,** please provide copy of response)

Describe the proposed activity.

APPENDIX A

Acronyms and Abbreviations

ACRONYMS

FHA	Federal Housing Administration
IGLD 85	International Great Lakes Datum of 1985
LWMD	Land and Water Management Division
M/D/Y	Month / Day / Year
MDEQ	Michigan Department of Environmental Quality
NGVD 29	National Geodetic Vertical Datum of 1929
NREPA	Natural Resources and Environmental Protection Act
OHWM	Ordinary High Water Mark
PCU	Permit Consolidation Unit
USACE	United States Army Corps of Engineers
U.S.C.	United States Code of Federal Regulations
VA	Veterans Administration

ABBREVIATIONS

ac	acre
cu yd	cubic yards
ft	feet
sq ft	square feet